

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
September 2001**

Prepared by the
Office of the Delaware River Master
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during September was in the normal range. The maximum daily mean discharge of 2,660 cfs occurred on September 27. The minimum daily mean discharge was 1,340 cfs on September 30.

On the basis of a multi-station average, precipitation during September was 5.31 inches, which was 139 percent of the 60-year average. The maximum daily-average precipitation during September was 1.76 inches on September 25. Precipitation in the upper Delaware River Basin during the past 12 months was 6.47 inches less than the long-term average. Precipitation during September was 1.48 inches more than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during September was 1,877 cfs, which was 93 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 1,004 cfs, or 82 percent of median (water years 1961-90).

Combined storage October 1, 2001 in Pepacton, Cannonsville, and Neversink Reservoirs was 52 percent of capacity above the point of maximum depletion. The combined storage of 141 billion gallons was 37 billion gallons less than that of one month ago and 97 billion gallons less than that of one year ago. Median storage on the first day of October in 34 years of record is 178 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during September were below average in 11 of the wells. Water levels in 10 of the wells were trending downward in comparison to August levels. Water levels in 11 of the wells were below September 2000 levels.

HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

PRECIPITATION, IN INCHES

	Dec. 1940 to Sept. 2000		October 2000 to September 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.39	43.29	2.78	36.82	82	85	-.61	-6.47
Nov.	3.85	39.90	2.45	34.04	64	85	-1.40	-5.86
Dec.	3.34	36.05	4.30	31.59	129	88	+.96	-4.46
Jan.	3.02	32.71	1.46	27.29	48	83	-1.56	-5.42
Feb.	2.65	29.69	*2.38	25.83	90	87	-.27	-3.86
Mar.	3.33	27.04	4.95	23.45	149	87	+1.62	-3.59
Apr.	3.77	23.71	*1.35	18.50	36	78	-2.42	-5.21
May	4.21	19.94	3.09	17.15	73	86	-1.12	-2.79
June	3.96	15.73	3.81	14.06	96	89	-.15	-1.67
July	4.09	11.77	2.36	10.25	58	87	-1.73	-1.52
Aug.	3.85	7.68	2.58	7.89	67	103	-1.27	+.21
Sept.	3.83	3.83	5.31	5.31	139	139	+1.48	+1.48

Note: Amount shown in cumulative columns is total from month shown to present.

*Revised since last month

STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
September (observed)	9,167 (1960)	2,016	892 (1941)	1,877	93
September (adjusted)	10,720 (1960)	1,462	324 (1964)	1,004	69
October (observed)	15,690 (1955)	2,326	807 (1941)		
October (adjusted)	18,570 (1955)	2,130	322 (1964)		